

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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| Applicant's or agent's file reference P019657WO | FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below. | |
| International application No. PCT/GB2005/001036 | International filing date (day/month/year) 18/03/2005 | (Earliest) Priority Date (day/month/year) 19/03/2004 |
| Applicant FIRST INERTIA SWITCH LIMITED | | |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

FUEL LEVEL DETECTOR USING ROTATING ANGLE SENSOR ATTACHED TO FLOAT ON TOTATING ARM

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1, 2

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☒ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/GB2005/001036

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A fuel level sensor having a magnetic position sensor connected to an arm for attachment to a float, wherein the magnetic position sensor comprises a stator and a movable part, the stator having two soft magnetic pieces defining an air gap, which contains a magnetosensitive probe for measuring the variation in induction in the gap, the moveable part comprising a yoke of soft magnetic material displaceable parallel to the magnetic pieces of the stator, and a magnet partly embedded in a cavity in the yoke facing the stator, the poles of the magnet being polarized perpendicularly to direction of movement of the moveable part relative to the stator.

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/GB2005/001036

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G01F23/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

 Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
 EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| Y | US 2004/003660 A1 (FUKUHARA TOSHIKI ET AL) 8 January 2004 (2004-01-08) page 3, paragraph 45 - page 4, paragraph 58; figure 3 | 1-17 |
| Y | US 6 593 734 B1 (GANDEL PIERRE ET AL) 15 July 2003 (2003-07-15) cited in the application the whole document | 1-17 |
| A | EP 1 376 077 A (TI AUTOMOTIVE GMBH) 2 January 2004 (2004-01-02) the whole document | 1-17 |

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

5 August 2005

Date of mailing of the international search report

22/08/2005

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2005/001036

| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
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